

**CENTAURI ENERGY SERVER
TECHNICAL DATA SHEET**

GF-40000-360Vdc-380Vac-3 | Version: October 2019

PERFORMANCE SPECIFICATIONS	MODEL	40KW
	Rated power	40 KW
	Rated current	91 A
	Output power factor	1
	Rated input voltage	380 Vac \pm 20%
	Rated output voltage	380 Vac \pm 1%
	Battery voltage	360 Vdc
	Operating mode	AC and PV complementation
	Operating temperature	0°C ~ 40°C
	Max. relative humidity	90% (non-condensing)
	Max. altitude	1000 m at rated power (derating 1% for each additional 100 m); Max. 4000 m
	Noise level at 1 m	\leq 65 dB (varies with loads and temperature)
	IP rating	IP20
PV INPUT	Max. voltage (Voc)	750 Vdc
	Optimum operating voltage (Vmp)	450 ~ 550 Vdc
	Max. conversion efficiency	\geq 98%
	Floating charge voltage (25°C)	414 Vdc \pm 1%
	Equalizing charge voltage (25°C)	428 Vdc \pm 1%
	MPPT Max. current	180 A
	Max. PV power	3 * 25 kW
	Number of PV input	3 + 1 (reserve)
	MPPT modules	3 + 1 (reserve)
AC RECTIFIER	Input voltage range	380 V \pm 20% three-phase
	Rated frequency	50 Hz / 60 Hz \pm 5 Hz (settable)

This technical data sheet may change without notice and at the sole discretion of Kilowatt Labs, Inc.

Solutions for: Microgrids | C&I and Residential Solar | Electric Vehicles | Utility Grade Storage

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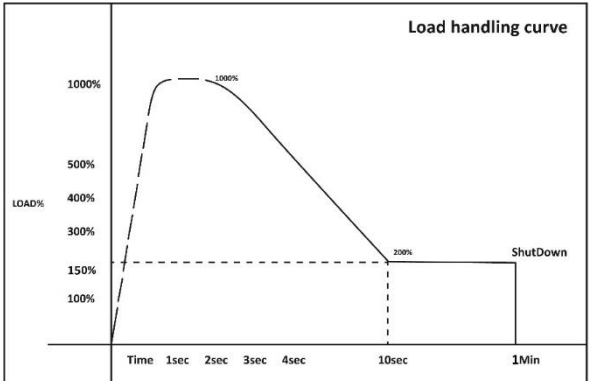
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	Power factor	0.8
	Floating charge voltage (25°C)	410 V ± 1%
	Equalizing charge voltage (25°C)	415 V ± 1%
	Max. charging current	75 A
INVERTER	Inverter voltage	380 Vac three-phase + N+PE
	Phase voltage	220 / 230 / 240 Vac (settable)
	Output voltage precision	± 1%
	Transient voltage range	± 5%
	Transient recovery time	20 ms
	Rated frequency	50 Hz / 60 Hz ± 1 Hz (settable)
	Frequency tracking range	50 Hz / 60 Hz ± 3 Hz
	Peak factor	3: 1
	Waveform	Sinusoidal
	Waveform distortion	≤ 3% (linear load)
	Voltage unbalance	± 3% (100% unbalanced load)
	Overload	≥ 100% ~ 150% shut down in 1 min; ≥ 150% ~ 200% shut down in 10 sec; ≥ 210% ~ 1000% shut down in less than 10 sec; ≥ 1000% shut down in 2 s;
	Short circuit	Current-limiting, shut down immediately until the user start up
Max. efficiency	≥ 93%	
BYPASS	Rated voltage	380 Vac three-phase + N+PE
	Voltage range	± 20%
	Rated frequency	50 Hz / 60 Hz ± 5 Hz
	Max. current	114 A
TRANSFER TIME	Inverter– Bypass	0 ms
	Bypass – Inverter	0 ms

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COMMUNICATIONS	Remote control	Energy server startup, shutdown, abnormal clearance, EPO, battery self-test
	Communication interface	RS232, RS485, SNMP (optional)
	Dry contacts output	Bypass input abnormal, rectifier input abnormal, system fault, system alarm, low battery, output overload, fan fault, generator ON / OFF
Load Handling Curve		 <p>The graph illustrates the server's load handling capabilities. It shows a rapid rise to 1000% load within the first second, a sustained 1000% load until the second mark, followed by a controlled ramp-down to 200% load by the 10-second mark. After 10 seconds, the load remains constant at 200% until the 1-minute mark, where it drops to 0% for a shutdown.</p>
MECHANICAL SPECIFICATIONS	Dimensions (W × D × H) (mm)	600 × 700 × 1750 mm
	Packed dimensions (W × D × H) (mm)	690 × 790 × 1850 mm
	Weight (kg)	515 kg